# Performance Data Sheet

## AVB5533EXT

## General Information

| | | | |
|---|---|---|---|
| **Model** | AVB5533EXT | **Refrigerant** | R-22 |
| **Test Condition** | ARI | **Performance Test Voltage** | 230V 3~ 60HZ |
| **Return Gas** | 18.3°C (65°F) RETURN GAS | **Motor Type** | 3PH |

## Performance Information

| Evap Temp (°F) | | Condensing Temperature (°F) | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | **80** | **90** | **100** | **110** | **120** | **130** | **140** |
| **-15** | Btu/h | 8890 | 7350 | | | | | |
| | Watts | 1260 | 1250 | | | | | |
| | Amps | 4.98 | 5.03 | | | | | |
| | Lb/h | 115 | 98.8 | | | | | |
| **-10** | Btu/h | 11000 | 9420 | 7880 | | | | |
| | Watts | 1370 | 1370 | 1370 | | | | |
| | Amps | 5.21 | 5.26 | 5.31 | | | | |
| | Lb/h | 142 | 126 | 110 | | | | |
| **-5** | Btu/h | 13300 | 11600 | 10000 | 8430 | | | |
| | Watts | 1470 | 1480 | 1500 | 1510 | | | |
| | Amps | 5.43 | 5.48 | 5.55 | 5.61 | | | |
| | Lb/h | 170 | 154 | 138 | 122 | | | |
| **0** | Btu/h | 15800 | 14000 | 12300 | 10600 | 8970 | | |
| | Watts | 1570 | 1600 | 1630 | 1660 | 1670 | | |
| | Amps | 5.64 | 5.71 | 5.80 | 5.87 | 5.91 | | |
| | Lb/h | 201 | 184 | 168 | 152 | 135 | | |
| **5** | Btu/h | 18500 | 16600 | 14700 | 12900 | 11200 | | |
| | Watts | 1660 | 1710 | 1760 | 1800 | 1830 | | |
| | Amps | 5.84 | 5.93 | 6.04 | 6.14 | 6.21 | | |
| | Lb/h | 233 | 217 | 200 | 183 | 166 | | |
| **10** | Btu/h | 21500 | 19400 | 17400 | 15400 | 13500 | 11600 | 9820 |
| | Watts | 1740 | 1810 | 1880 | 1940 | 1990 | 2010 | 2010 |
| | Amps | 6.03 | 6.14 | 6.27 | 6.41 | 6.51 | 6.55 | 6.49 |
| | Lb/h | 269 | 252 | 235 | 217 | 199 | 180 | 160 |
| **15** | Btu/h | 24700 | 22500 | 20300 | 18100 | 16000 | 14000 | 12000 |
| | Watts | 1810 | 1900 | 1990 | 2080 | 2140 | 2190 | 2200 |
| | Amps | 6.19 | 6.33 | 6.50 | 6.67 | 6.82 | 6.90 | 6.90 |
| | Lb/h | 307 | 289 | 272 | 253 | 234 | 214 | 193 |
| **20** | Btu/h | 28200 | 25800 | 23400 | 21100 | 18800 | 16500 | 14300 |
| | Watts | 1870 | 1990 | 2100 | 2210 | 2290 | 2360 | 2400 |
| | Amps | 6.33 | 6.50 | 6.71 | 6.93 | 7.12 | 7.26 | 7.31 |
| | Lb/h | 348 | 330 | 312 | 292 | 272 | 251 | 229 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **25** | Btu/h | 32000 | 29400 | 26800 | 24300 | 21800 | 19300 | 16900 |
| | Watts | 1910 | 2050 | 2190 | 2330 | 2440 | 2530 | 2590 |
| | Amps | 6.43 | 6.65 | 6.90 | 7.17 | 7.42 | 7.61 | 7.72 |
| | Lb/h | 392 | 374 | 355 | 335 | 313 | 291 | 268 |
| **30** | Btu/h | 36100 | 33300 | 30500 | 27700 | 25000 | 22300 | 19600 |
| | Watts | 1940 | 2110 | 2280 | 2430 | 2570 | 2690 | 2770 |
| | Amps | 6.51 | 6.76 | 7.07 | 7.39 | 7.70 | 7.96 | 8.13 |
| | Lb/h | 440 | 421 | 401 | 380 | 358 | 334 | 310 |
| **35** | Btu/h | 40600 | 37600 | 34500 | 31500 | 28500 | 25600 | 22600 |
| | Watts | 1940 | 2150 | 2340 | 2530 | 2700 | 2840 | 2950 |
| | Amps | 6.54 | 6.85 | 7.21 | 7.59 | 7.96 | 8.29 | 8.54 |
| | Lb/h | 492 | 472 | 451 | 429 | 406 | 381 | 355 |
| **40** | Btu/h | 45500 | 42200 | 38900 | 35600 | 32400 | 29100 | 25900 |
| | Watts | 1930 | 2160 | 2390 | 2610 | 2810 | 2980 | 3120 |
| | Amps | 6.53 | 6.89 | 7.31 | 7.76 | 8.20 | 8.60 | 8.94 |
| | Lb/h | 548 | 527 | 505 | 482 | 457 | 431 | 403 |
| **45** | Btu/h | 50800 | 47300 | 43700 | 40100 | 36500 | 33000 | 29500 |
| | Watts | 1890 | 2160 | 2420 | 2670 | 2910 | 3110 | 3280 |
| | Amps | 6.47 | 6.89 | 7.38 | 7.90 | 8.42 | 8.90 | 9.32 |
| | Lb/h | 609 | 587 | 563 | 539 | 513 | 485 | 455 |
| **50** | Btu/h | 56600 | 52700 | 48800 | 44900 | 41100 | 37200 | 33400 |
| | Watts | 1820 | 2130 | 2430 | 2720 | 2980 | 3220 | 3420 |
| | Amps | 6.35 | 6.85 | 7.41 | 8.00 | 8.60 | 9.17 | 9.68 |
| | Lb/h | 674 | 650 | 626 | 600 | 572 | 543 | 512 |
| **55** | Btu/h | 62800 | 58600 | 54400 | 50200 | 46000 | 41800 | 37600 |
| | Watts | 1730 | 2070 | 2410 | 2740 | 3040 | 3320 | 3550 |
| | Amps | 6.18 | 6.75 | 7.39 | 8.07 | 8.75 | 9.41 | 10.0 |
| | Lb/h | 744 | 719 | 693 | 666 | 637 | 606 | 573 |

| COEFFICIENTS | CAPACITY | POWER | CURRENT | MASS FLOW |
|---|---|---|---|---|
| C1 | 3.118112E+04 | 2.271285E+03 | 9.722790E+00 | 3.408447E+02 |
| C2 | 6.678524E+02 | -1.421118E+01 | 4.977962E-02 | 5.797757E+00 |
| C3 | -1.979216E+02 | -2.806091E+01 | -1.406449E-01 | -2.029608E+00 |
| C4 | 7.374363E+00 | -4.690656E-01 | -1.131609E-03 | 6.044717E-02 |
| C5 | -1.495319E+00 | 4.771265E-01 | -4.629672E-04 | 1.615511E-02 |
| C6 | 5.645313E-03 | 3.384526E-01 | 1.547339E-03 | 5.192560E-03 |
| C7 | 3.280163E-02 | -2.884067E-03 | -6.005559E-06 | 3.596305E-04 |
| C8 | -3.856861E-02 | 4.199746E-03 | 1.105013E-05 | -1.945388E-04 |
| C9 | -4.569461E-03 | -7.835781E-04 | 4.509181E-06 | -1.207564E-04 |
| C10 | 8.437282E-04 | -1.220713E-03 | -5.334607E-06 | -2.160018E-05 |

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature